

TRAWL HAUL LOG

This log contains detailed questions about the setting and hauling of gear, and the haul's catch. Complete a new log after each hauling of gear. If you feel that you cannot go on deck for weather related safety reasons, record as much information on this log as possible (*i.e.* Header Information, weather, depths, times, positions, *etc.*).

If the gear is set, and only partially hauled back, include the time spent hauling and resetting the net in this haul's time. Record END TIME (#4) when the net is completely brought onboard.

The species summary section of this log should be used to record catches of groundfish species, debris and shells only. If any pelagic species (*i.e.* swordfish, billfish, tuna, bonito, sharks, *etc.*), sturgeons, rays or tagged fish are caught in this haul, an Individual Animal Log must be completed to provide information on each animal caught by the gear. This Trawl Haul Log will serve as a cover sheet for any Individual Animal Log(s) corresponding to this haul that may follow. All marine mammals, sea turtles, and sea birds caught in the gear must be recorded on a Marine Mammal, Sea Turtle, and Sea Bird Incidental Take Log. See Appendix R. Species List and Corresponding Logs for a list of species and the log(s) on which to record them.

In the **pelagic pair trawl fishery**, also record debris on the Individual Animal Log. When the net is taken by the other vessel, the haul is recorded as **unobserved** and only the **kept** information for the haul should be recorded in the species section of the log.

If there are insufficient lines on one form for all species caught in this haul, continue listing species on an additional Trawl Haul Log making sure to complete all of the Header Information (A-C) and HAUL NUMBER (E).

If information is unavailable or unknown to any question except a "No/Yes" question, record a dash (-) in the field. If the answer to a "No/Yes" question is unknown, record a "9" on the line next to the code for "No" to indicate that a field was not skipped, but the answer is unknown. If a field relates to a question to which you previously answered "No", leave the field blank.

Become familiar with the following definitions.

DEFINITIONS

OTTER TRAWL

Haul Begin: First component of net deployed, *i.e.* net hits the water.

Haul End: Hauling equipment put into gear.

PAIR TRAWL

Haul Begin: First component of net deployed, *i.e.* net hits the water and cable (wire) begins to be paid out.

Haul End: Net retrieved to the surface, *i.e.* legs retrieved and aboard both vessels.

NOTE: The cables (wires) and net are usually hauled back alternating between vessels throughout the trip. The observer is expected to see all, or a majority of, the hauls occurring on the vessel to which he/she is deployed.

INSTRUCTIONS

For instructions on completing fields **A-W**, refer to the Common Haul Log Data section of the NEFSC Observer Program Manual.

1. GEAR NUMBER: Record the gear number used for this haul as uniquely identified on the appropriate Trawl Gear Characteristics Log(s).

2. GEAR CONDITION: Indicate the condition of the gear at haulback, even if this was the condition of the gear when set, by recording the most appropriate two digit code listed below, and in Appendix J. Gear Condition Codes:

- 00 = Unknown.
- 01 = No gear damage, or very few small, scattered holes.
- 02 = Wings twisted or torn, not exceeding 50% of meshes.
- 03 = Wings twisted or torn, exceeding 50% of meshes.

- 04 = Square and/or bosom torn, not exceeding 50% of meshes.
- 05 = Square and/or bosom torn, exceeding 50% of meshes.
- 06 = Belly torn, not exceeding 25% of meshes.
- 07 = Belly torn, exceeding 25% of meshes.
- 08 = Codend and/or extension piece torn, not exceeding 10% of meshes.
- 09 = Codend and/or extension piece torn, exceeding 10% of meshes.
- 10 = Hang-up, causing gear to be hauled back before scheduled time; minor damage.
- 11 = Parted legs, sweep, or headrope.
- 12 = Tear up exceeding gear condition of code 02, but not total net destruction.
- 13 = Obstruction in the gear, such as a large amount of fixed gear, boulders, *etc.*
- 14 = Crossed doors.
- 15 = Open codend.
- 16 = Major hang-up, tear-up, or loss of gear.
- 17 = Grate clogged with fish or debris.
- 99 = Other, specify in COMMENTS.

3. BEGIN/END DATE: Record the month, day, and year, based on local time, that this haul began and ended.

4. BEGIN/END TIME: Record the local time, using the 24 hour clock (0000-2359), that this haul began and ended, *i.e.* when the first component of the net is deployed, or the net hits the water (Haul Begin) and when the hauling equipment is put into gear (**otter trawl**) or the net is retrieved to the surface (**pair trawl**) (Haul End).

5. HAUL END WATER TEMPERATURE: Record, to the nearest tenth of a degree Fahrenheit, the surface water temperature when this haul **ended**.

NOTE: If this temperatures is obtained in Celsius, use Appendix Q. Conversion Tables to convert it to Fahrenheit.

NOTE: Use a "ScoopMaster" thermometer to obtain this temperature.

NOTE: If an incidental take occurs in this haul, a HAUL END WATER TEMPERATURE **must** be recorded.

6. TOW SPEED: Record, to the nearest tenth of a knot, the average towing speed, over the bottom, for this haul.

7. WIRE OUT: Record, in whole fathoms, the amount of wire paid out for this haul. This measurement is taken from the towing blocks to the trawl doors. This information may be obtained from the captain.

8. DEPTH RANGE, HEADROPE: (for pair trawl trips only) Record, in whole fathoms, the range of depths (shallowest to deepest), from the surface, the headrope fished for this haul. This information should be obtained from the captain or the transducer screen/printout.

9. DISTANCE RANGE BETWEEN BOATS: (for pair trawl trips only) Record, in whole feet, the range of distances (shortest to longest) between the two boats while fishing. This information should be obtained from the captain.

COMMENTS

Record any additional information regarding this haul, *i.e.* unusual species caught, uncommon catches, tear-ups, levels of bycatch when a Nordmore grate is used, *etc.* If more room is needed, use the back of this log, making sure to write "See Back" on the front of the log. Reference each comment with its corresponding field name.